

## Water-Data Report 2008

**01022840 OTTER CREEK NEAR BAR HARBOR, MAINE**

 Maine Coastal Basin  
 Maine Coastal Subbasin

LOCATION.--Lat 44°19'58", long 68°12'24" referenced to North American Datum of 1983, Hancock County, ME, Hydrologic Unit 01050002, on left bank 25 ft upstream of State Route 3, and 0.8 mi north of Otter Creek village.

DRAINAGE AREA.--1.35 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: May 2006 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 90 ft above National Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair, except for flows below 1 ft<sup>3</sup>/s, and periods of ice effect, Dec. 3-5, 10-16, 18-23, Dec. 31 to Jan. 6, Jan. 14-17, Jan. 20 to Feb. 1, Feb. 5-12, 15-17, Feb. 21 to Mar. 3, and Mar. 13-19, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 806 ft<sup>3</sup>/s, September 7, 2008, gage height, 13.63 ft, from rating curve extended above 150 ft<sup>3</sup>/s; minimum discharge, 0.03 ft<sup>3</sup>/s, Sept. 8, 2007, gage height, 1.49 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 12	1335	150	5.50
Nov 3	2200	327 <sup>a</sup>	7.42
Dec 24	0410	184	5.93
Jan 11	1930	123	5.12
Feb 2	0405	101	4.77
Feb 13	2035	496 <sup>a</sup>	9.49
Feb 18	1310	214	6.27
Mar 5	1520	110	4.92
Mar 8	2300	533 <sup>a</sup>	9.96
Apr 29	2030	191	6.02
Aug 1	1645	189	5.99
Aug 3	1600	100	4.77
Sept 7	0615	*806 <sup>a</sup>	*13.63
Sept 27	0845	104	4.82
Sept 28	0200	223	6.36

Minimum discharge, 0.07 ft<sup>3</sup>/s, Oct. 6, gage height, 1.50 ft.

<sup>a</sup> From rating curve extended above 150 ft<sup>3</sup>/s

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**01022840 OTTER CREEK NEAR BAR HARBOR, MAINE—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.12	0.97	2.0	e3.2	e1.4	e1.5	27	5.5	5.5	0.44	34	0.37
<b>2</b>	0.11	0.86	1.7	e2.7	36	e1.4	22	3.4	1.8	0.39	12	0.35
<b>3</b>	0.12	61	e1.6	e2.4	6.7	e1.4	7.7	2.6	1.3	0.37	27	0.35
<b>4</b>	0.12	57	e1.5	e2.2	3.7	5.3	11	3.2	1.2	0.34	13	0.33
<b>5</b>	0.10	8.0	e1.4	e2.0	e3.0	37	20	4.6	1.2	0.32	6.6	0.32
<b>6</b>	0.09	9.5	1.4	e2.0	e2.9	16	9.6	2.9	1.1	0.30	3.5	0.45
<b>7</b>	0.16	12	1.3	6.4	e2.7	7.4	7.0	2.2	0.97	0.29	2.5	133
<b>8</b>	0.12	5.1	1.5	42	e2.3	87	5.8	2.0	0.87	0.27	2.0	7.7
<b>9</b>	0.11	3.5	1.3	39	e2.1	63	5.1	1.7	0.75	0.26	1.8	3.8
<b>10</b>	0.12	2.7	e1.2	14	e2.0	9.4	5.4	1.6	0.73	0.25	1.5	2.9
<b>11</b>	0.12	2.2	e1.1	33	e1.9	5.4	4.9	1.5	0.71	0.22	1.3	1.9
<b>12</b>	23	1.9	e1.5	23	e1.8	4.3	6.4	1.3	0.60	0.21	11	1.6
<b>13</b>	6.3	2.3	e1.3	8.4	98	e3.3	5.0	1.2	0.53	0.21	5.7	3.1
<b>14</b>	1.8	2.1	e1.2	e5.2	39	e2.7	3.5	1.2	0.51	0.22	2.6	2.7
<b>15</b>	1.0	1.9	e1.1	e3.9	e8.2	e2.4	2.9	1.1	0.52	0.19	1.8	6.0
<b>16</b>	0.70	16	e1.8	e3.0	e4.7	e2.2	2.5	1.0	0.55	0.17	1.8	2.5
<b>17</b>	0.50	7.2	8.0	e2.5	e3.6	e2.0	2.3	1.3	1.2	0.16	1.5	1.7
<b>18</b>	0.41	3.7	e3.5	16	83	e1.9	2.1	1.2	0.87	0.17	1.2	1.3
<b>19</b>	0.42	2.8	e2.2	10	26	e1.8	2.0	1.0	0.77	0.21	1.1	1.1
<b>20</b>	20	2.4	e1.9	e4.9	8.7	23	1.9	0.95	0.71	0.18	0.99	1.1
<b>21</b>	3.5	2.1	e1.7	e3.2	e4.4	9.2	1.7	0.91	0.64	0.39	0.84	1.0
<b>22</b>	1.6	2.3	e1.6	e2.5	e3.2	4.5	1.6	0.86	0.58	0.24	0.75	0.91
<b>23</b>	1.1	2.5	e2.0	e2.1	e2.6	3.2	1.5	0.87	0.60	0.21	0.68	0.84
<b>24</b>	0.96	1.8	60	e1.8	e2.2	2.7	1.4	0.82	0.61	2.7	0.66	0.77
<b>25</b>	0.80	1.6	9.9	e1.5	e2.0	2.3	1.3	0.74	0.48	13	0.62	0.72
<b>26</b>	0.70	1.6	5.5	e1.4	e1.9	2.5	1.2	0.68	0.43	3.8	0.55	0.73
<b>27</b>	2.1	13	4.0	e1.3	e1.7	2.6	1.2	1.2	0.40	1.3	0.50	27
<b>28</b>	5.2	4.6	3.2	e1.2	e1.6	2.6	1.1	1.4	0.41	0.77	0.46	88
<b>29</b>	1.8	2.9	6.2	e1.1	e1.5	2.2	34	0.88	0.58	0.67	0.46	15
<b>30</b>	1.3	2.5	6.4	e1.7	---	2.1	19	0.72	0.51	0.73	0.45	6.1
<b>31</b>	1.1	---	e4.2	e1.9	---	2.7	---	2.6	---	0.49	0.41	---
<b>Total</b>	75.58	238.03	143.2	245.5	358.8	315.0	218.1	53.13	27.63	29.47	139.27	313.64
<b>Mean</b>	2.44	7.93	4.62	7.92	12.4	10.2	7.27	1.71	0.92	0.95	4.49	10.5
<b>Max</b>	23	61	60	42	98	87	34	5.5	5.5	13	34	133
<b>Min</b>	0.09	0.86	1.1	1.1	1.4	1.4	1.1	0.68	0.40	0.16	0.41	0.32

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2008, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	3.49	8.76	4.79	6.57	6.99	9.66	10.1	4.14	4.36	1.30	1.77	3.78
<b>Max</b>	4.54	9.58	4.95	7.92	12.4	10.2	12.9	6.63	11.0	2.67	4.49	10.5
(WY)	(2007)	(2007)	(2007)	(2008)	(2008)	(2008)	(2007)	(2006)	(2006)	(2006)	(2008)	(2008)
<b>Min</b>	2.44	7.93	4.62	5.22	1.41	9.17	7.27	1.71	0.92	0.27	0.18	0.13
(WY)	(2008)	(2008)	(2008)	(2007)	(2007)	(2007)	(2008)	(2008)	(2008)	(2007)	(2007)	(2007)

**01022840 OTTER CREEK NEAR BAR HARBOR, MAINE—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>	<b>Water Year 2008</b>	<b>Water Years 2006 - 2008</b>	
<b>Annual total</b>	1,506.00	2,157.35		
<b>Annual mean</b>	4.13	5.89	5.18	
<b>Highest annual mean</b>			5.89	2008
<b>Lowest annual mean</b>			4.47	2007
<b>Highest daily mean</b>	119	Apr 16	133	Sep 7, 2008
<b>Lowest daily mean</b>	0.05	Sep 4	0.09	Oct 6
<b>Annual seven-day minimum</b>	0.05	Sep 2	0.12	Oct 1
<b>Maximum peak flow</b>			806	Sep 7, 2008
<b>Maximum peak stage</b>			13.63	Sep 7
<b>Instantaneous low flow</b>			0.07	Oct 6
<b>10 percent exceeds</b>	8.6	12		11
<b>50 percent exceeds</b>	1.1	1.8		1.6
<b>90 percent exceeds</b>	0.13	0.38		0.21

